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MORBIDITY AND MORTALITY WEEKLY REPORT

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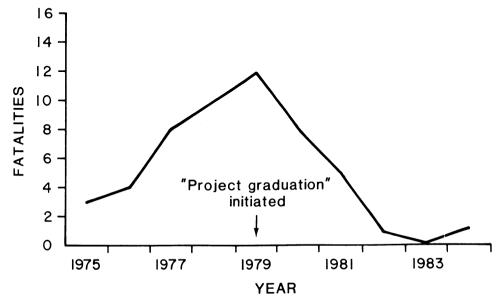
Perspectives in Disease Prevention and Health Promotion

Project Graduation — Maine

During the 1979 commencement period (May 15-June 30) in Maine, seven of the 12 deaths among teenagers that resulted from driving under the influence of alcohol occurred in the area of Oxford Hills. In response to this loss of life, a school-community coalition from Oxford Hills developed and implemented a program called "Project Graduation," a chemical-free graduation celebration, during the 1979-1980 school year. During Oxford Hills' 1980 commencement period, there were no fatalities, no alcohol or drug-related injuries, and no arrests for driving under the influence of alcohol.

The number of fatalities occurring among 15- to 19-year-old Maine residents during the graduation period that involved teenagers driving under the influence of alcohol decreased from 12 in 1979 to one in 1984, with an intermittent drop to zero in 1983 (Figure 1). During this period, the number of high schools participating in Project Graduation increased from 1 to 129. This statewide diffusion effort, stimulated by the Maine Department of Educational

FIGURE 1. Motor-vehicle-related fatalities among 15- to 19-year-old residents involving teenagers driving under influence of alcohol during graduation period — Maine, May 15-June 30, 1975-1984



Source: Maine Department of Educational and Cultural Services.

Project Graduation — Continued

and Cultural Services, Division of Alcohol and Drug Education Services, constitutes program adoption in 84.9% of Maine's high schools. In 1984, 79.1% of graduating seniors in project sites (68.3% of graduating seniors statewide) attended chemical-free commencement activities. The single fatality reported in 1984 did not occur in a Project Graduation site. Analysis of the fatalities in question for teens residing in areas where the program was in place, compared with teens who did not reside in those areas, revealed a significant difference (Mantel-Haenszel, p = 0.03) favoring teens exposed to Project Graduation (Table 1).

Reported by C Mowatt, J Isaly, M Thayer, Maine Div of Alcohol and Drug Education Svcs, Dept of Educational and Cultural Svcs, Augusta, E Miller, Div of Health Education, Bureau of Health, Maine Dept of Human Svcs; J Fell, National Center for Statistics and Analysis, National Highway Traffic Safety Administration; B Veal, Florida Informed Parents, Tallahassee; Program Svcs and Development Br, Div of Health Education, Center for Health Promotion and Education, CDC.

Editorial Note: Nationally, teenagers have the highest rate of drinking drivers involved in fatal crashes for every 100 million vehicular miles driven—a rate of 2.9, compared with an average rate of 1.1 for all age groups. The National Highway Traffic Safety Administration (NHTSA) estimates that, in 1984, 4,200 teenagers died in alcohol-related crashes.

Although it is not possible to attribute the cause of the downward trend in Maine teen drinking and driving fatalities to the adoption of Project Graduation, evidence is sufficient to encourage public health support for the continued promotion of this important program and for more extensive efforts to determine those elements that can make the project more effective. On the basis of the results in Maine, the NHTSA has supported several national conferences to stimulate promotion of Project Graduation. In June 1984, 38 states had at least one Project Graduation site, and in May 1985, 19 states had designated a coordinator at the state level. In places where it is undertaken, Project Graduation is much more than an event that occurs on graduation night. It is a communitywide planning process that strives to create a caring, supportive environment and more open communication between youths and adults. At most sites, a team of teachers, students, and parents designs the chemical-free celebration and a variety of fund-raising activities. School officials, drug specialists, and community and business leaders provide guidance, support, and money for the celebration. Newspapers and radio and television stations work to increase community awareness of the issues. The result can be a powerful and positive force within the community and its institutions. For example,

TABLE 1. Teen resident fatalities resulting from teenagers driving under the influence of alcohol, by project and nonproject sites — Maine, May 15-June 30, 1980-1984

	1980	1981	1982	1983	1984	Total
No. graduating seniors in project sites	252	1.624	3.526	9.620	14.297	29,319
in project sites	202	1,024	3,320	3,020	14,237	23,313
Teen resident fatalities						
in project sites	0	0	0	0	0	0
No. graduating seniors						
in nonproject sites	17,009	15,771	13,487	6,984	1,508	54,759
Teen resident fatalities						
in nonproject sites	8	5	1	0	1	15
Frequency in nonproject						
sites (rate/10,000)	4.7	3.2	0.7	0	6.6	2.7

Project Graduation — Continued

during the 1985 graduation period, four counties in the Tampa Bay, Florida, area are planning chemical-free graduation celebrations. At least 24 high schools will participate.

Project Graduation emphasizes prudent decision-making about drinking, drug taking, and driving and endeavors to establish chemical-free celebrations as the norm. Details on how to implement the program are available from: Project Graduation, National Highway Traffic and Safety Administration, NTS-01, 400 7th Street, Northwest, Washington, D.C. 20590.

Epidemiologic Notes and Reports

Human Rabies Acquired Outside the United States

The third case of human rabies reported to CDC in 1984 was diagnosed in California in October 1984 in a 72-year-old Guatemalan citizen. The patient reported that, in an unprovoked attack in Guatemala in early June, she was bitten on her right ankle by a stray dog that could not be found for examination. On September 3, she first noted weakness of her right leg. She left Guatemala that day to visit her daughter in California. When she deplaned in California that evening, she was unable to walk without assistance. By September 6, she was unable to stand and was hospitalized.

At the time of admission, the patient was alert, communicative, and afebrile. She reported receiving shots at the time of her bite and was thought to have received rabies postexposure prophylaxis. The only abnormality detected on physical examination was right lower extremity weakness. Agitation and confusion developed on the night of admission. Computerized tomographic examination of her head was unremarkable. On September 9, a lumbar puncture revealed a cerebrospinal fluid white blood cell count of 6 lymphocytes per mm³, an elevated protein (65 mg/dl), and a normal glucose. Later that day, she developed aspiration pneumonia and required mechanical ventilation. Paralysis progressed to involve all extremities, and her mental status declined. Despite supportive care, she became comatose and died October 1.

At autopsy, because of the clinical course of progressive encephalitis, brain tissue was examined and found positive for rabies by direct fluorescent antibody testing. Questioning of family members revealed that, following the dog bite, the patient had received only local wound care and a single intramuscular injection (presumably tetanus toxoid). The delay in diagnosis necessitated administering postexposure prophylaxis to 179 persons exposed to the patient, including 12 family members.

Adapted from California Morbidity (November 9, 1984); reported by Div of Viral Diseases, Center for Infectious Diseases, CDC.

Editorial Note: Ten (43%) of the 23 human rabies cases reported to CDC from 1975 through 1984 were acquired outside the United States; these include six acquired by U.S. citizens living outside the United States and four acquired by non-U.S. citizens outside the United States and diagnosed in the United States. There were histories of probable exposure to rabies from a dog bite in eight of the 10 cases. In the eight cases, the development of rabies was attributable to: failure to seek treatment (three cases), postexposure therapy not recommended (two), delay in seeking treatment (one), failure to receive rabies immune globulin as part of post-exposure therapy (one), and misdiagnosis of the exposing animal (one).

All persons traveling to rabies-endemic areas outside the United States should be made aware of the risk of exposure to rabies and the importance of local wound treatment, medical

Human Rabies — Continued

Reference

advice, and rabies biologics. Persons traveling to developing countries where rabies control programs for domestic animals are not optimal should be offered preexposure prophylaxis if they plan to stay for more than 30 days (1). Every 2 years, persons on long-term international assignments in rabies-endemic areas who are at risk of an inapparent exposure to rabies or a delay in postexposure prophylaxis should be advised to have a booster or have their serum tested for rabies-neutralizing antibody and, if their titer is inadequate, have a booster. It should be emphasized that preexposure prophylaxis does not eliminate the need for prompt postexposure prophylaxis if an exposure to rabies occurs.

Rabies should be considered in any case of encephalitis or myelitis of unknown etiology, even in the absence of an exposure history, particularly in a person who has lived or traveled outside the United States.

In the United States, state health departments should be consulted for assistance in reviewing the techniques for diagnosing rabies in suspected rabid animals and the therapeutic measures received by any person exposed to rabies outside the United States. If assistance is needed outside the United States, a United States Embassy or consulate can be contacted.

1. ACIP. Rabies prevention—United States, 1984. MMWR 1984;33:393-408.

TABLE I. Summary—cases of specified notifiable diseases, United States

i	. 1	7th Week End	ing	Cumulat	ive, 17th Week	Ending
Disease	Apr. 27, 1985	Apr. 28, 1984	Median 1980-1984	Apr. 27, 1985	Apr. 28, 1984	Median 1980-1984
Acquired Immunodeficiency Syndrome (AIDS)	191	96	N	2.231	1,192	N
Aseptic meningitis	81	64	66	1,149	1,293	1,293
Encephalitis: Primary (arthropod-borne					•	
& unspec.)	9	15	16	280	265	265
Post-infectious	5	1	1	45	32	32
Gonorrhea: Civilian	15,140	15,190	17.043	254.856	263,419	300,507
Military	449	433	439	5.934	6.657	8,709
Hepatitis: Type A	393	372	457	6.875	6.835	7,607
Type B	471	473	430	8.010	8.012	6,678
Non A, Non B	87	81	N	1,349	1,167	N
Unspecified	112	101	159	1,706	1,537	2,765
Legionellosis	14	7	N	176	159	N
Leprosy	7	9	6	114	71	71
Malaria	23	15	26	222	221	261
Measles: Total*	84	141	134	893	1,019	1,019
Indigenous	64	129	N	670	902	N
Imported	20	12	N	223	117	N
Meningococcal infections: Total	59	70	70	995	1,174	1,174
Civilian	58	70	70	993	1,172	1,172
Military	l i	-	-	2	2	5
Mumps	79	69	123	1.357	1,225	1,831
Pertussis	20	33	33	411	684	362
Rubella (German measles)	13.	58	80	136	230	886
Syphilis (Primary & Secondary): Civilian	561	586	609	8,113	9,290	9,838
Military	9	11	11	65	113	122
Toxic Shock syndrome	9	11	N	119	155	N
Tuberculosis	506	447	499	6.348	6,606	7,895
Tularemia		4	2	24	23	33
Typhoid fever	4	6	7	81	105	121
Typhus fever, tick-borne (RMSF)	4	8	10	18	38	36
Rabies, animal	104	98	192	1,504	1,565	1,944

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1985		Cum. 1985
Anthrax	-	Leptospirosis	8
Botulism: Foodborne (Ohio 1)	2	Plague	-
Infant (Ohio 1)	14	Poliomyelitis: Total	1
Other	-	Paralytic	1
Brucellosis (Calif. 2)	28	Psittacosis (Calif. 2)	44
Cholera	-	Rabies	-
Congenital rubella syndrome	-	Tetanus (Mass. 1, S.C. 1, Fla. 1, Hawaii 1)	19
Congenital syphilis, ages < 1 year	52	Trichinosis	28
Diphtheria	1	Typhus fever, flea-borne (endemic, murine)	3

^{*}Twenty of the 84 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending April 27, 1985 and April 28, 1984 (17th Week)

		Aseptic		halitis					iral) by ty	al), by type					
Reporting Area	AIDS	Menin- gitis	Primary	Post-in- fectious		orrhea vilian)	A	В	NA,NB	Unspeci-	Legionel- losis	Leprosy			
Reporting Area	Cum. 1985	1985	Cum. 1985	Cum. 1985	Cum. 1985	Cum. 1984	1985	1985	1985	fied 1985	1985	Cum. 1985			
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R.I.	4	4	-	-	571	500	-	3	2	1	-	-			
Conn.	19	-	-		3,834	3,537	1 6	5 39	3	2	-	10			
MID ATLANTIC Upstate N.Y.	895 119	12 1	43 15	1 1	35,689 5,053	35,662 5,353	1	13	-	-	-	-			
N.Y. City N.J.	606 108	10	3 11	-	16,159 7,048	15,486 5,603	5	2 24	3	2	-	10			
Pa.	62	1	14	-	7,429	9,220	-	-	-	-	-	-			
E.N. CENTRAL Ohio	104 23	5 1	67 26	11 4	36,038 9,457	36,112 9,354	10 2	35 16	7	3 1	5 3	2 2			
Ind.	4	-	12	1	3,326	4,336	ĩ	7	5	2	-	-			
III. Mich.	43 21	4	7 18	4	9,726 10,699	8,173 10,201	7	12	2	-	2	-			
Wis.	13	-	4	2	2,830	4.048	-	-	-	-	-	-			
W.N. CENTRAL Minn.	23 4	1	26 11	3 1	13,070 1,904	12,441 1,795	40 27	11	7 4	-	1	-			
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W. Va.	1	6	2	-	5,867 774	795	1	6	-	-	1	-			
N.C. S.C.	18 2	4	10 3	-	10,179 7,102	10,648 6,343	3	9 9	3	2	-	1 -			
Ga. Fla	49 157	2	-	10	16,497	13,255 15,829	2 16	14 33	9	9	1	1			
E.S. CENTRAL	18	8	9	3	22,232	22,433	12	27	6	3	-	-			
Ky. Tenn.	7	8	3	-	2,449 8,792	2,751 9,112	7 3	10 15	1 4	3	-	-			
Ala	9	-	2	3	7,023	7,156	1	1	-	-	-	-			
Miss.	1	-	-	~	3,968	3,414	1	1	1	-	-				
W.S. CENTRAL Ark	170 2	13	26 1	-	36,338 3,440	36,233 3,184	60	38	5	33	1	11			
La.	25	-	i	-	7,844	7,987	6 7	3 4	2	1	- 1	1			
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MOUNTAIN	34	7	9	3	8,421	8,051	42	26	11	12	2	1			
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Wyo.	-	-	-	-	211	243	7	1 5	1	- 8	1	-			
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Nev	3	-	-	-	1,317	1,290	10	2	1	-	-	1			
PACIFIC	602	12	64	9	40,195	37,650	175	114	23	38	2	85 12			
Wash. Oreg.	33 10	-	3	-	2,661 2,036	2,733 2,119	7 28	7 10	2	1	-	2			
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TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending April 27, 1985 and April 28, 1984 (17th Week)

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^{*}For measles only, imported cases includes both out-of-state and international importations.

N Not notifiable U: Unavailable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
April 27, 1985 and April 28, 1984 (17th Week)

Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock Syndrome	Tubero	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
rieporting Area	Cum. 1985	Cum. 1984	1985	Cum. 1985	Cum. 1984	Cum. 1985	Cum. 1985	Cum. 1985	Cum. 1985
UNITED STATES	8,113	9,290	9	6,348	6,606	24	81	18+	4 1,504
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	171 5 - 96 6 64	206 1 2 1 127 8 67	2 2	215 16 3 132 21 43	186 9 12 2 102 17 44	-	6 - - 5 - 1	-	-
MID ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	1,078 77 671 229 101	1,273 109 755 233 176	1	1,190 189 620 116 265	1,228 198 501 249 280	1 - 1	14 6 3 4		129 29 2 98
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	374 40 32 192 91 19	400 84 52 134 99 31	1 1 - -	799 141 90 346 179 43	878 182 94 362 191 49	- - - -	9 2 3 1 2	- - - -	35 8 5 7 15
W N. CENTRAL Minn. Iowa Mo N. Dak. S. Dak. Nebr. Kans.	85 23 12 32 - 4 5	151 32 10 89 - - 5 15	1 1 - - - -	167 34 27 73 2 7 8 16	170 27 28 75 5 5 9	7 1 - 5 - 1	2 2 - - - - - -	- - - - - -	222 31 58 16 25 60 13
S ATLANTIC Del Md D C. Va W Va N C S C Ga Fla	2.020 16 134 118 111 4 237 254	2.853 9 186 98 143 8 296 274 486 1.353	1 - 1	1,284 10 114 60 105 28 163 150 185 469	1,411 16 154 42 131 53 226 155 201 433	5 1 - - - - 4 - -	9 - 2 - 1 - 1 5	12 + · · · · · · · · · · · · · · · · · ·	-
E.S. CENTRAL Ky Tenn Ala Miss.	773 31 207 236 299	556 30 147 191 188	- - - -	553 91 170 197 95	616 134 196 203 83	2 2	2 - - 2 -	4 1 3	82 12 20 50
W.S. CENTRAL Ark. La. Okla. Tex.	2,062 105 352 60 1,545	2,216 74 416 66 1,660	- - - -	692 75 96 75 446	690 72 87 67 464	2 1 - 1	4 - - - 4	2 - - 2 -	306 55 4 38 209
MOUNTAIN Mont. Idaho Wyo Colo. N Mex. Ariz. Utah Nev.	256 1 2 4 62 36 136 3 12	221 9 3 49 29 92 6 33	2	153 19 4 . 3 18 27 71 5 6	151 8 9 - 111 333 68 10	5 1 - - 2 2 - 2	4 - - 3 1 -	- - - - - - -	113 60 3 1 49
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	1,294 35 31 1,201 1 26	1,414 48 41 1,296 3 26	1 - 1	1,295 60 44 1,087 45 59	1,276 67 53 1,069 22 65	2 - 1 1 -	30	- - - - >	178 1 - 177 -
Guam P.R. V.I. Pac. Trust Terr.	302 1	283 6	U - U U	5 99 1	19 127 3	- - -	i -		11

TABLE IV. Deaths in 121 U.S. cities,* week ending April 27 1985 (17th Week)

		All Cau	ses, By A	ge (Yea	rs)				All Causes, By Age (Years)						
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I** Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	< 1	P&I Tot
NEW ENGLAND	659	465	135	27	18	14	55	S. ATLANTIC	1,318	820	322	02	37		
Boston, Mass.	185	114	41	9	10	11	20	Atlanta, Ga.	153	90	44	92 16		44	59
Bridgeport, Conn.	39	32	5	2	-		5	Baltimore, Md.	214	137	49	10	3 7	11	
Cambridge, Mass.	22	16	4	2	-	-	1	Charlotte, N.C.	76	44	19	3	2	8	,
all River, Mass.	27	20	7	-	-	-	1	Jacksonville, Fla.	123	73	36	8	2	4	
lartford, Conn.	48	29	16	1	2		3	Miami, Fla.	102	58	34	5	1	4	
owell, Mass.	37	29	6	2	-	-	3	Norfolk, Va.	45	24	11	6	i	3	
ynn, Mass.	21	16	5	-	-	-	-	Richmond, Va.	79	48	22	7	i	1	
lew Bedford, Mass		20	2	1	-	-	-	Savannah, Ga.	42	31	- 8		2	1	
lew Haven, Conn.	35	21	8	4	1	1	3	St. Petersburg, Fla.	112	83	24	1	2	2	
rovidence, R.I.	70	51	14	1	2	2	8	Tampa, Fla.	89	57	17	4	3	5	
omerville, Mass.	12	11	1		-	-	-	Washington, D.C.	253	153	55	29	11	5	
pringfield, Mass.	35	26	6	2	1	-	1	Wilmington, Del.	30	22	3	3	2	-	
Vaterbury, Conn.	37	29	6	1	1	-	5								
Vorcester, Mass.	68	51	14	2	1	-	5	E.S. CENTRAL	738	451	184	45	22	36	3
MID ATLANTIC :	2 5 2 2							Birmingham, Ala.	114	59	33	11	3	8	
Albany, N.Y.	2,523	1.645	543	214	59	62	117	Chattanooga, Tenn		43	15	1	1	2	
Allentown, Pa.	49 20	30 14	11	2	4	2	1	Knoxville, Tenn.	74	48	19	4	1	2	
Buffalo, N.Y.			6	• •	~	-	: 1	Louisville, Ky	135	77	38	6	4	10	
Camden, N.J.	115 34	78	18	12	2	5	4	Memphis, Tenn.	110	78	23	6	2	1	
lizabeth, N.J.	0-1	22	9	1	1	1	1	Mobile, Ala.	77	40	23	3	5	6	
rie, Pa.†	19 42	11 28	5 9	2	1	-	1	Montgomery, Ala.	36	30	3	1	2	-	
ersey City, N.J.	48	29		3	2		2	Nashville, Tenn.	130	76	30	13	4	7	
	1.349	869	10 286	5 136	1 28	3	5	14/0 0511554							
lewark, N.J.	74	35	18	12		30	60	W.S. CENTRAL	1,308	791	322	108	41	46	5
aterson, N.J.	30	22	4	4	3	6	-	Austin, Tex.	47	29	4	8	3	3	
hiladelphia, Pa.	296	192	75	11	11	7	3	Baton Rouge, La.	22	10	7	2	2	1	
ittsburgh, Pa.†	66	44	18	4		′-	18	Corpus Christi, Tex		31	14	5	-	-	
eading, Pa.	35	26	7	1	1	-	5	Dallas, Tex.	227	121	63	23	9	11	
lochester, N.Y.	112	76	26	5	2	3	2	El Paso, Tex.	76	49	16	6	-	5	
chenectady, N.Y.	36	31	4	1	-		6	Fort Worth, Tex.	91	58	21	8	2	2	
Scranton, Pa.†	33	22	7	3	-	1	2	Houston, Tex.	251	141	68	21	14	7	1
yracuse, N.Y.	85	57	17	5	3		2	Little Rock, Ark	120	65	35	7	4	9	
renton, N.J.	36	24	7	4	3	3	2	New Orleans, La.	123	79	30	10	2	2	
Jtica, N.Y.	21	15	5	1	-	1	1	San Antonio, Tex.	136	95	28	9	3	1	
onkers, N.Y.	23	20	1	2	-	-	i	Shreveport, La. Tulsa, Okla.	58 107	38 75	15 21	4 5	2	1 4	
.N. CENTRAL	2,291	1.584	418	130	66	92	103	MOUNTAIN	676				_		
Akron, Ohio	67	50	11	4	2	-	3	Albuquerque, N.Me	676	435	148	48	24	21	3
Canton, Ohio	45	35	10	7	-	-	7	Colo Springs, Colo	x § 76	71		1	3	1	
Chicago, III.§	553	462	11	26	16	37	16	Denver, Colo.		27	11	3	4	-	
incinnati, Ohio	125	74	35	6	4	6	19	Las Vegas, Nev.	116	68	27	13	4	4	
leveland, Ohio	170	88	61	9	1	11	6	Ogden, Utah	81	50	24	6	1		
Columbus, Ohio	126	81	25	11	5	4	6		16	14	2		-	-	
ayton, Ohio	114	76	28	4	3	3	5	Phoenix, Ariz. Pueblo, Colo.	167	100	38	15	5	9	
etroit, Mich.	255	142	66	28	14	5	6		28	15	9		2	2	
vansville, Ind.	56	40	12	3		1	٥	Salt Lake City, Utal		19	13	5	3	2	
ort Wayne, Ind.	75	50	11	7	5	2	4	Tucson, Ariz.	105	71	24	5	2	3	1
ary, Ind.	23	16	4	2	1	-	7.1	PACIFIC	1 707	1 170	25.5				
irand Rapids, Mich		48	14	3	3	5	6	Berkele, Calif.	1,797 15	1,176 12	355	141	60	59	ć
dianapolis, Ind.	154	99	37	9	4	5	2	Fresno, Calif.				3	-		
Madison, Wis.	28	18	5	4	1	-	2	Glendale, Calif.	51 18	29	13	5	4	-	
lilwaukee, Wis.	143	106	28	4	2	3	7	Honolulu, Hawaii	63	15 46	3	-	-	-	
eoria, III.	45	29	9	-	1	6	4	Long Beach, Calif.			8	3	2	4	
ockford, III.	35	26	7	_	i	1	1	Los Apostes Colf.	89 444	51	26	6	3	3	
outh Bend, Ind.	50	44	5	1			2	Los Angeles, Calif. Oakland, Calif.		281	85	51	19	2	1
oledo, Ohio	98	62	24	6	3	3	5		75 20	53	14	4	1	3	
oungstown, Ohio		38	15	3	-	-	2	Pasadena. Calif. Portland, Oreg.	29 143	24 98	1 28	3 4		1	
-					20	•		Sacramento, Calif.	127	85	27	10	5 2	8	1
V.N. CENTRAL	784	540	143	47	23	31	40	San Diego, Calif.	131	75	29	7	10	10	1
es Moines, Iowa	65	48	10	4	3	- :	5	San Francisco, Cali		94	33	16	1	9	
uluth, Minn.	34	27	4	1	1	1	2	San Jose, Calif.	187	122	35	16	5	9	
ansas City, Kans	28	19	5	-	2	2	2	Seattle, Wash.	165	117	32	8	6	2	1
ansas City, Mo.	133	91	28	9	2	3	9	Spokane, Wash.	72	48	14	3	2	5	,
incoln, Nebr.	45	34	5	4	1	1	5	Tacoma, Wash.	35	26	7	2	-	-	
finneapolis, Minn.		53	17	4	2	5	1					-		-	
maha, Nebr.	106	73	21	6	1	5	5	TOTAL	12,094	7,907	2,570	852	350	405	59
t. Louis, Mo.	153	103	26	12	5	7	4			/	2,0.0	002	330	+05	59
it. Paul, Minn.	53	36	11	3	3	-	1								
Vichita, Kans.	86	56	16	4	3	7	6								

^{*} Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or

more A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included ** Pneumonia and influenza

[†] Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. ††Total includes unknown ages

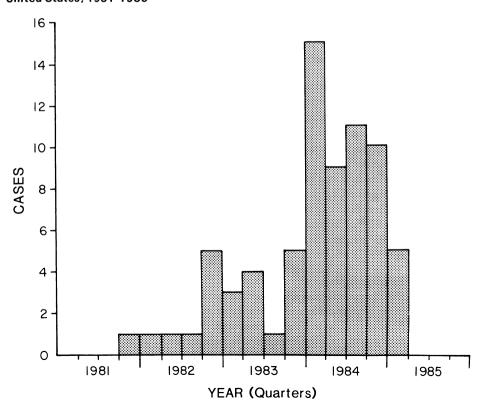
[§] Data not available. Figures are estimates based on average of past 4 weeks.

Current Trends

Changing Patterns of Acquired Immunodeficiency Syndrome in Hemophilia Patients — United States

The pattern of hemophilia-associated AIDS appears to be changing in that the number of cases may be stabilizing or declining, and the characteristics of new cases appear to be changing. As of April 1, 1985, CDC has received reports of 73 cases of hemophilia-associated acquired immunodeficiency syndrome (AIDS) among U.S. patients. The first case was diagnosed in 1981; eight cases were diagnosed in 1982; 13, in 1983; 45, in 1984; and six, thus far in 1985 (Figure 2). Four of these 73 had known risk factors for AIDS other than a coagulation disorder requiring treatment with commercial factor concentrates or cryoprecipitate. Patients with severe hemophilia A (hereditary factor VIII deficiency) continue to account for the majority (52 [71%]) of hemophilia-associated AIDS cases. Patients with mild or moderate hemophilia A account for an additional 13 (18%) cases. The remaining cases consist of three patients with hemophilia B (hereditary factor IX deficiency), three with von Willebrand's disease, one with an acquired inhibitor to factor VIII, and one with factor V deficiency. These patients resided in 27 different states. Cases reported per state ranged from one to nine (median two).

FIGURE 2. Hemophilia-associated acquired immunodeficiency syndrome, by year — United States, 1981-1985



AIDS in Hemophilia Patients — Continued

Ten patients had no documented use of blood products other than factor concentrates in the 5 years preceding their diagnoses. One patient with von Willebrand's disease, diagnosed in January 1985, had no documented use of blood products other than cryoprecipitate in the 3 years preceding diagnosis.

Sera from 29 (40%) of the 73 cases were obtained and tested by the Western blot method (1) for antibody to human T-lymphotropic virus type III/lymphadenopathy-associated virus (HTLV-III/LAV); 22 (76%) of the 29 were antibody-positive.

Of the opportunistic infections considered by CDC to be indicative of underlying cellular immune deficiency, *Pneumocystis carinii* pneumonia (PCP) remains the most common infection diagnosed in hemophilia-associated AIDS. Sixty-one (84%) of 73 patients had PCP alone or in combination with one or more other opportunistic infections.

Thirty-eight (52%) of the 73 hemophilia patients with AIDS have died. Seven (20%) of those still alive have survived 1 year or more since diagnosis; one (3%) has survived longer than 2 years.

Surveillance indicates the characteristics of recently diagnosed hemophilia-associated AIDS cases may be changing, and the number of new cases diagnosed by quarter may be stabilizing in this population. Ten of the 23 patients diagnosed since August 1, 1984, have disorders other than severe hemophilia A. This represents a change in proportion from earlier diagnosed cases (10 of 50 [p = 0.05]). During 1984, more cases of hemophilia-associated AIDS were diagnosed than in all previous years of surveillance. However, unlike the epidemic pattern for all AIDS, the number of hemophilia-associated AIDS cases in 1984 has not increased in each quarter (Figure 2). It is possible that a significant number of hemophilia-associated AIDS cases not yet reported to CDC have already been diagnosed at some time in 1984, and the temporal distribution of cases is subject to change with receipt of reports of such cases. However, preliminary results from a simulation of 1985 hemophilia/AIDS reporting indicate that the expected number and distribution of cases would not sufficiently change the 1984 hemophilia-AIDS epidemic pattern.

Reported by Div of Host Factors, AIDS Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.

Editorial Note: HTLV-III/LAV has been implicated as the causal agent of AIDS (2-5), and in the hemophilia population, commercial factor concentrates are suspected as the vehicle for transmission of the virus (6-8). Recently, exposure to HTLV-III/LAV through use of cryoprecipitate has been documented in studies of the seroprevalence (two of six tested) (9) and seroconversion (two of 11 seroconverting during a 1-year period) (10) in hemophilia patients using this product exclusively. The development of AIDS in three patients with von Willebrand's disease, one of whom had no documented blood product exposure other than cryoprecipitate and no other risk factor for AIDS, is further strong evidence to consider chronic use of cryoprecipitate a definite risk factor for AIDS. This may be especially true for those who are exposed to multiple donors (more than 80 per year). The magnitude of this risk may depend on geographic locality.

Trends in both the number and characteristics of recently reported hemophilia-associated AIDS appear to be changing. Patients with mild or moderate hemophilia and those with von Willebrand's disease tend to use significantly less clotting factor products in their disease therapy than do those with severe hemophilia and are more likely to be treated with products other than commercial factor concentrates. The recent increase in AIDS cases reported among persons with milder hemophilia may reflect earlier exposure of persons with severe hemophilia A to HTLV-III/LAV than of those with mild or moderate hemophilia or von Willebrand's disease. Continuous surveillance will be needed to monitor these trends. Physicians and other health-

AIDS in Hemophilia Patients — Continued

care personnel are encouraged to report suspected AIDS cases to CDC through their local or state health departments.

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Epidemiologic Notes and Reports

Reported Measles Cases — United States, Past 4 Weeks

The following states have reported measles during the past 4 weeks: Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Idaho, Illinois, Kansas, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Jersey, upstate New York, Ohio, Oregon, Pennsylvania, Texas, Virginia, West Virginia, and Wisconsin; New York City has also reported measles.

Erratum: Vol. 34, No. 16

p. 228. In the article, "Rubella in Colleges — United States, 1983-1984," the second-last sentence of the last full paragraph on page 230 should read: Preliminary findings suggested that as few as 16% of the 1,861 colleges assessed have requirements for measles and/or rubella immunity as a condition of attendance.

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The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, Morbidity and Mortality Weekly Report. Centers for Disease Control, Atlanta, Georgia 30333.

Director, Centers for Disease Control James O. Mason, M.D., Dr.P.H. Director, Epidemiology Program Office Carl W. Tyler, Jr., M.D. Editor Michael B. Gregg, M.D. Assistant Editor Karen L. Foster, M.A.

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